

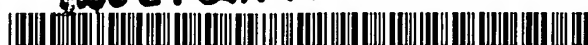
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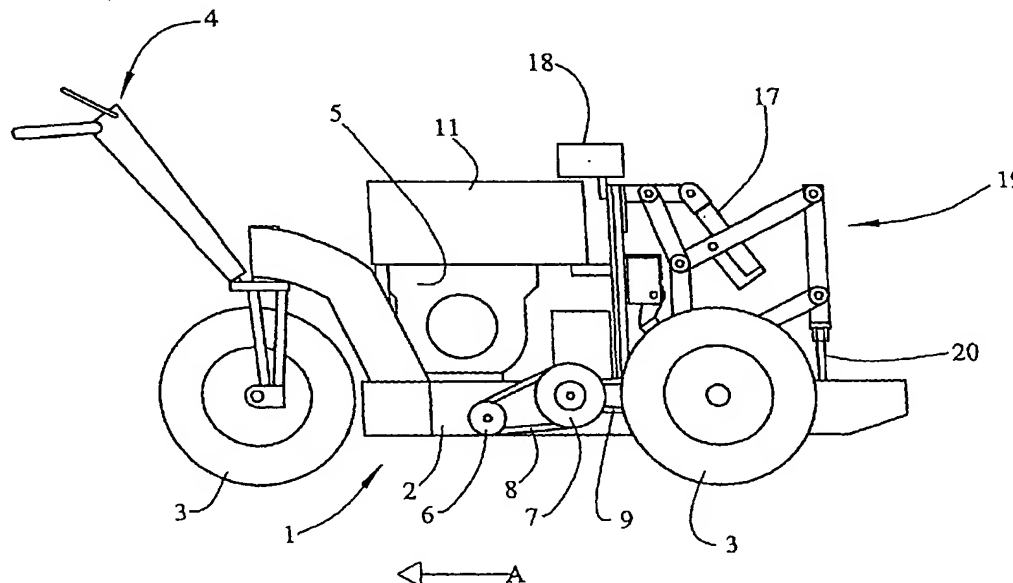
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(54) Title: CULTIVATING DEVICE



(57) Abstract: A cultivator (1) for aerating a ground surface. The cultivator has a support frame (2) moveable relative to the ground surface and a follower first pivotally connected to the support frame by a first pair of spaced link arms. A tool support member is pivotally connected to the follower by a second pair of spaced link arms. A driver effects cyclic movement of the tool support member in the second direction and movement of the follower in a first direction and a tool support member in a second direction. A bias element provides resilient damping of the movement of the follower along the first direction away from the support frame (2). A dampening element provides resilient damping of the movement of the follower along the first direction toward the support frame (2).

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/31663

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) :A01B 45/00

US CL :172/21

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 172/21, 22, 35, 42, 48, 52, 53, 54, 95, 99, 101, 84, 88, 125

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,988,290 A (BANKS) 23 November 1999, figures 1,3-8.	1-7, 16-21
X	US 5,797,458 A (SIMON et al) 25 August 1998, figure 1.	1-7, 16-21
A	US 3,204,703 A (Hansen) 7 September 1965, figures 3, 5-7.	1-7, 16-21
A	US 5,810,092 A (SELVATICI) 22 September 1998, figures 1,3,4.	1-7, 16-21

☐ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

<ul style="list-style-type: none"> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul style="list-style-type: none"> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</li> <li>"&amp;" document member of the same patent family</li> </ul>
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Date of the actual completion of the international search

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